## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1-4. (Cancelled)
- 5. (Currently amended) The process according to claim 1
  A process for forming a polycrystalline silicon layer, comprising steps of:
  forming at least one seed made of amorphous silicon on a substrate;
  forming an amorphous silicon layer on said substrate, overlying said amorphous silicon seed;

irradiating said amorphous silicon layer with a laser to melt said amorphous silicon layer; and

recrystallizing said molten amorphous silicon layer to form a polycrystalline silicon layer;

wherein said step of forming said at least one seed on said substrate comprises sub-steps of:

forming an intermediate covering layer on said substrate;

patterning said intermediate covering layer to define said intermediate covering layer as a specified pattern;

forming an amorphous silicon spacer beside said specified pattern; and removing said specified pattern with said spacer remained.

- 6. (Original) The process according to claim 5 wherein said intermediate covering layer is made of silicon nitride.
  - 7. (Original) The process according to claim 5 wherein said intermediate

covering layer is made of metal.

8. (Previously presented) A process for forming a polycrystalline silicon layer, comprising steps of:

defining a first region and a second region on a surface of a substrate;
forming an intermediate covering layer on said first region of said substrate;
patterning said intermediate covering layer to define said intermediate covering
layer as a specified pattern;

forming an amorphous silicon spacer beside said specified pattern;

removing said specified pattern with said spacer remained to form at least one seed on said first region of said substrate;

forming an amorphous silicon layer on said first and said second regions of said substrate;

irradiating said amorphous silicon layer with a laser to melt said amorphous silicon layer; and

recrystallizing said molten amorphous silicon layer on said first region to form a polycrystalline silicon layer.

- 9. (Original) The process according to claim 8 wherein said substrate is a glass substrate.
- 10. (Original) The process according to claim 8 wherein said substrate is a plastic substrate.
- 11. (Original) The process according to claim 8 wherein said laser is an excimer laser.
  - 12. (Cancelled)

- 13. (Previously presented) The process according to claim 8 wherein said intermediate covering layer is made of silicon nitride.
- 14. (Previously presented) The process according to claim 8 wherein said intermediate covering layer is made of metal.
- 15. (Original) The process according to claim 8 further comprising a step of recrystallizing said molten amorphous silicon layer on said second region to form a microcrystalline silicon layer.
- 16. (Previously presented) A process for fabricating a polycrystalline silicon layer, comprising steps of:

providing a substrate;

forming an intermediate covering layer on said substrate;

patterning said intermediate covering layer to define said intermediate covering layer as a specified pattern;

forming an amorphous silicon spacer beside said specified pattern;

removing said specified pattern with said spacer remained to form at least one seed on said substrate;

forming an amorphous silicon layer on said substrate, overlying said seed;

irradiating said amorphous silicon layer with a laser to melt said amorphous silicon layer; and

recrystallizing said molten amorphous silicon layer to form a polycrystalline silicon layer.

- 17. (Original) The process according to claim 16 wherein said substrate is a glass substrate.
  - 18. (Original) The process according to claim 16 wherein said substrate is a

plastic substrate.

- 19. (Original) The process according to claim 16 wherein said laser is an excimer laser.
- 20. (Original) The process according to claim 16 wherein said intermediate covering layer is made of one of silicon nitride and metal.
- 21. (Previously presented) A process for forming a polycrystalline silicon layer, comprising steps of:

defining a first region and a second region on a surface of a substrate;

forming at least one seed on said first region of said substrate;

forming an amorphous silicon layer on said first and said second regions of said substrate;

irradiating said amorphous silicon layer on said first region and said second region with a laser to melt said amorphous silicon layer; and

recrystallizing said molten amorphous silicon layer on said first region and said second region to form a polycrystalline silicon layer and a microcrystalline silicon layer, respectively.